

CLAIMS

What is claimed is:

1. A rocker system for actuating valve lift events of an internal combustion engine, the rocker system comprising:

a rocker arm;

an actuator link in constant driving engagement with the rocker arm and a camshaft;

a rocker shaft positioned in a cylinder head and oriented to have a rotational axis substantially perpendicular to a rotational axis of the camshaft, wherein rocker arm is arranged to be rotated about the rocker shaft and engage a valve to actuate valve lift events of the internal combustion engine.

2. The rocker system of claim 1, wherein the actuator link comprises a push rod.

3. The rocker system of claim 1, wherein the rocker arm is arranged to rotate about the rocker shaft and drivingly engage more than one valve.

4. The rocker system of claim 3, wherein the rocker arm comprises an intake rocker arm, the intake rocker arm arranged to drivingly engage more than one intake valve.

5. The rocker system of claim 1, wherein the rotational axis of the rocker shaft is oriented to be substantially parallel to a cylinder block deckface.

6. The rocker system of claim 1, wherein the system further comprises:
an intake rocker arm arranged to rotate about the rocker shaft;
an exhaust rocker arm arranged to rotate about the rocker shaft, wherein the exhaust rocker arm is coupled about the rocker shaft so as to be nested within the intake rocker arm while allowing independent rotation of the intake and exhaust rocker arms.

7. The rocker system of claim 6, wherein the actuator link comprises a push rod.

8. The rocker system of claim 7, wherein the intake rocker arm is arranged to drivingly engage more than one valve.

9. The rocker system of claim 7, wherein the rotational axis of the rocker shaft is oriented to be substantially parallel to a cylinder block deckface.